## **LISTING OF CLAIMS:**

This listing of claims will replace all prior versions, and listing, of claims in the application.

1. (Currently amended) An expendable container comprising:

an expendable tank configured to store an expendable and having a piezoelectric sensor element attached thereto;

a driving circuit configured to charge and dischargeenergize and de-energize the piezoelectric sensor element;

a detection signal generation circuit configured to generate a detection signal including cycle information representing a cycle of an output voltage wave of the piezoelectric sensor element after the driving circuit eharges and discharges energizes and de-energizes the piezoelectric sensor element; and

a control module configured to control at least one of an impedance of a dischargede-energizing circuit through which the piezoelectric sensor element discharges deenergizes and a dischargede-energizing time so as to be a certain level that reduces a noise element present in detecting the cycle information of the detection signal, wherein

the cycle information is available for determining whether a residual quantity of the expendable is greater than a preset level, and

the control module is eapable of varying a discharge characteristic configured to vary a property affecting an output signal of the piezoelectric sensor element.

2. (Currently amended) The expendable container in accordance with claim 1,

wherein the control module is <u>eapable of varying</u>configured to vary a <u>discharge</u>de-energizing time constant of the piezoelectric sensor element.

- 3. (Currently amended) The expendable container in accordance with claim 1, wherein the control module is capable of varyingconfigured to vary a dischargede-energizing time of the piezoelectric sensor element.
- 4. (Currently amended) The expendable container in accordance with claim 1, wherein

the detection signal generation circuit comprises:

a voltage generation circuit configured to generate a predetermined potential difference between a first terminal with a higher potential and a second terminal with a lower potential;

the piezoelectric <u>sensor</u> element having one end connected to the second terminal;

<u>a chargean energization</u> control switch connected between the first terminal and
the other end of the piezoelectric <u>sensor</u> element, and configured to control on and off

<u>chargingenergizing</u> from the first terminal to the piezoelectric <u>sensor</u> element according to a
control output from the control module;

a <u>dischargede-energization</u> control switch connected between the other end of the piezoelectric <u>sensor</u> element and the second terminal, and configured to control on and off <u>dischargingde-energizing</u> from the piezoelectric <u>sensor</u> element to the second terminal according to the control output from the control module; and

a resistive circuit connected between the other end of the piezoelectric sensor

element and the second terminal, and having a variable resistance, wherein

the control module is configured to control the on-off of the charge energization

control switch, the on-off of the dischargede-energizing control switch, and the resistance of the

resistive circuit.

5-13. (Canceled)